CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KAB/CEMENT/2013-14 Date: 10.08.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Kariyallappa A Betagiri,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of CC Drain at Kodigehalli AK colony in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-TND/15/2013-14 Dated: 03.06.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.08/KAB/CUBE/2013-14 23.08.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Kariyallappa A Betagiri,** Contractor, Bangalore.

Name of the work : Construction of CC Drain at Kodigehalli AK colony in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/15/2013-14 Dated: 03.06.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on :7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2013	23.08.2013	8.435	375.8	16.70
2	16.08.2013	23.08.2013	8.226	350.6	15.58
3	16.08.2013	23.08.2013	8.396	360.8	16.04

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Job No.: CTCE/BBMP/W.No.08/KAB/SAND/2013-14 : 10.08.2013

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Kariyallappa A Betagiri,** Contractor, Bangalore.

Name of Work : Construction of CC Drain at Kodigehalli AK colony in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/15/2013-14 Dated: 03.06.2013

Date of Testing : 10.08.2013

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	92	4.60	4.60	95.4	90-100
2.36	200	10.00	14.60	85.4	75-100
1.18	462	23.10	37.70	62.3	55-90
600 Micron	475	23.75	61.45	38.6	35-59
300 Micron	525	26.25	87.70	12.3	8-30
150 Micron	206	10.30	98.00	2.0	0-10

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Job No.: CTCE/BBMP/W.No.08/KAB/AGG/2013-14 : 10.08.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Kariyallappa A Betagiri,** Contractor, Bangalore.

Name of Work : Construction of CC Drain at Kodigehalli AK colony in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/15/2013-14 Dated: 03.06.2013

Date of Testing : 10.08.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	990	3.88	3.88	96.12	95-100
20	16150	63.33	67.22	32.78	30-70
10	4980	19.53	86.75	13.25	10-35
4.75	2590	10.16	96.90	3.10	0-5

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TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Kariyallappa A Betagiri,** Contractor, Bangalore.

Name of Work : Construction of CC Drain at Kodigehalli AK colony in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/15/2013-14 Dated: 03.06.2013

Date of Testing : 10.08.2013

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	190	3.80	3.8	96.20	95-100
10	3165	63.30	67.1	32.90	25-55
4.75	1485	29.70	96.8	3.20	0-10

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AE-08

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Job No.: CTCE/BBMP/W.No.08/KAB/STEEL/2013-14 10.08.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Kariyallappa A Betagiri,** Contractor, Bangalore.
Name of the Work	:	Construction of CC Drain at Kodigehalli AK colony in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-TND/15/2013-14 Dated: 03.06.2013
Date of Test	:	10.08.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
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Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.08/KAB/CUBE/2013-14 19.08.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Kariyallappa A Betagiri,** Contractor, Bangalore.

Name of the work : Construction of CC Drain at Kodigehalli AK colony in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/15/2013-14 Dated: 03.06.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on :7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.08.2013	19.08.2013	8.125	352.3	15.66
2	12.08.2013	19.08.2013	8.296	362.3	16.10
3	12.08.2013	19.08.2013	8.302	370.5	16.47

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